## AMENDMENT TO THE CLAIMS

Please **AMEND** claims 2, 4, 5, and 22 as follows.

Please CANCEL claims 3, 6, 7, and 21.

A copy of all pending claims and a status of the claims is provided below.

- 1. (canceled)
- 2. (currently amended) A method of photoresist trimming, comprising the steps of: arranging an opaque layer on a substrate; arranging a photoresist layer on the opaque layer;

developing the photoresist layer to form a trench in the photoresist layer, wherein the

trench comprises a sidewall having a resist foot;

mixing a trimming gas comprising O<sub>2</sub> and one of CO<sub>2</sub>, SO<sub>2</sub>, and NO<sub>2</sub>; and applying the trimming gas comprising O2 and one of CO2, SO2, and NO2 to selectively remove the resist foot, such that the sidewall is substantially perpendicular to an upper surface of the opaque layer after the applying; and

arranging a carbon barrier on an upper surface of the photoresist layer, wherein the mixing and the applying comprise a plasma etching process.

- 3. (canceled)
- 4. (currently amended) The method of claim 2, wherein an the upper surface of the photoresist layer is resistant to etching.
- 5. (currently amended) The method of claim 4, further comprising polymerizing an the upper surface of the photoresist layer.
  - 6. 8. (canceled)

- 9. (previously presented) The method of claim 2, wherein the trimming gas comprises O<sub>2</sub> and one of CO<sub>2</sub>, SO<sub>2</sub>, and NO<sub>2</sub> in a ratio ranging from about 1:50 to 50:1.
- 10. (previously presented) The method of claim 2, wherein the trimming gas comprises O<sub>2</sub> and one of CO<sub>2</sub>, SO<sub>2</sub>, and NO<sub>2</sub> in a ratio ranging from 1:10 to about 10:1.
- 11. (previously presented) The method of claim 10, wherein the trimming gas comprises O<sub>2</sub> and one of CO<sub>2</sub>, SO<sub>2</sub>, and NO<sub>2</sub> in a ratio ranging from about 1:3.
- 12. (previously presented) The method of claim 2, further comprising holding the trimming gas at a pressure ranging from about 1 mT to 1000 mT.
- 13. (previously presented) The method of claim 2, further comprising holding the trimming gas at a pressure ranging from about 1 mT to 100 mT.
  - 14. 21. (canceled)
- 22. (currently amended) The method of claim 2, further comprising polymerizing an the upper layer of the photoresist layer.
- 23. (previously presented) The method of claim 22, wherein the applying the trimming gas causes the polymerizing.